

686 AATKTIASVGRGRFGVSSQRP LKCVGGAETD FNYDSE 726

Search completed: December 2, 2005, 09:17:46  
Job time : 1 secs

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OM nucleic - nucleic search, using sw model  
Run on: December 2, 2005, 09:18:14 ; Search time 3 Seconds  
(without alignments)  
4.630 Million cell updates/sec

Title: US-08-993-914-3\*  
Perfect score: 2498  
Sequence: 1 ccaaccatgcaaacctaa.....ttgtaaaaaaaaaaaaa 2498

Scoring table: IDENTITY NUC  
Gap 10.0, Gapext 0.5

Searched: 1 segs, 2780 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database: 6891084.seq.\*  
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Length	ID	Description
1	289.698	11.6	2780	1 US-09-425-055-23*
2	17.8	0.7	2780	1 US-09-425-055-23*

# ALIGNMENTS

RESULT 1  
US-09-425-055-23  
Sequence 23, Application US/09425055  
Patent No. 6891084  
GENERAL INFORMATION:  
APPLICANT: OSUMI, CHIEKO  
APPLICANT: NOZAKI, JINSHI  
APPLICANT: KIDA, TAKAO  
TITLE OF INVENTION: RAFFINOSE SYNTHASE GENE, METHOD FOR PRODUCING RAFFINOSE, AND TRAN  
TITLE OF INVENTION: PLANT  
FILE REFERENCE: 001010440CONT  
CURRENT APPLICATION NUMBER: US/09/425.055  
CURRENT FILING DATE: 1999-10-22  
PRIOR APPLICATION NUMBER: PCT/JP97/03879  
PRIOR FILING DATE: 1997-10-24  
PRIOR APPLICATION NUMBER: JP 9-111124  
PRIOR FILING DATE: 1997-04-28  
PRIOR APPLICATION NUMBER: US 08/846,234  
PRIOR FILING DATE: 1997-04-28  
PRIOR APPLICATION NUMBER: JP 8-198079  
PRIOR FILING DATE: 1996-07-26  
PRIOR APPLICATION NUMBER: JP 8-107682  
PRIOR FILING DATE: 1996-04-26  
NUMBER OF SEQ ID NOS: 30  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 23

LENGTH: 2780  
TYPE: DNA  
ORGANISM: Glycine max cv. Clark63  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (156)..(2405)  
OTHER INFORMATION:  
US-09-425-055-23

Query Match 11.6%; Score 289.698; DB 1; Length 2780;  
Best Local Similarity 48.5%; Pred. No. 0;  
Matches 1019; Conservative 0; Mismatches 999; Indels 81; Gaps 9;

QY	266	GGTTCCTTGGTGGCTTCCACGGGACGAGCCGAGAACCGGACAGCTGCTCCCTGGG	325
DB	279	GGTCTTTTGTGGTCCACAGCTTCACACAGCAAAAGTCCATGTGTTCCAAATGGGT	338
QY	326	AGCTCAGAGGAAATAAATTCATGACATATTCGTTTTAAGGTGGTGGACACACAC	385
DB	339	GTTTAAAGGGGCTCCGCTTCATGTGTGTTCCGTTCAAGTTATGTGATGACTCAG	398
QY	386	TGGGTCTGTAAGCAGCAGCAAGACTGAGCAGACACAGATGATGCTTCCGACAA	445
DB	399	AGATGGGAATCTGTGGAGGAGATGTCTCTGAGACTCAATTCATGCTTATGAGAC	458
QY	446	AACGACC-----AGCTCGAGCGCCCTTGTGTGATTCCTCCGATC	487
DB	459	AAAGAGAGTGAACATGATGGGAGAAATCTCCATCATCTACCTGCTTCCCTCC	518
QY	488	CTCCAAAGCTCGTCCGAGCTCCCTCCGCAACCGGTTTGATATACGTGACGTTTC	547
DB	519	CTCGAAGGTCAATTCGAGCTGTTCTTCAAGGCAATGACAAAGACAGATGAGATTTGC	578
QY	548	ATGAGAGCGGGTGCACAGTGTCTGTGGCTCAGCTCGGAGCTGCTTATACGTCCAC	607
DB	579	CTCGAGATGGGATATGACAGTTGAGACTGACCAAGGCTTACATGTTTACATGAT	638
QY	608	GTTGGCCATGACCCGATCATGTTCTTAGAAGCACTAAAGTCTGTAGATGATTTTG	667
DB	639	GCTGGGACCAATCCCTTAAATGATCATCAAGCTGTAAGCTGGGAAAAACATG	698
QY	668	GGAGCTTCAAGCTTTCAGAGAGAAACCGCCGCTGATCATTAACAAGTTGGTTGG	727
DB	699	CAAACTTTCTTATCTGATGAGAAAGAGTTCATCTTCTTCACTGTTTGGATGG	758
QY	728	TGTACATGGGACGCTTACTTGAAGTGCATCCCTCAGGTGTGGAGGGGTGA	787
DB	759	TGCACATGGGATGCTTCTATCTGATGTCACAGCTGAGGGTGTGAGAGGCTGAAA	818
QY	788	GGTGTGTGAGGAGGCTCCCTCCAGGATGCTTATGACAGCGGTGGCAAGCC	847
DB	819	AGCTATATCAGAGGAGTACCTCCAGATTCCTATCATATGATATGTTGGCAACAG	878
QY	848	ATTGTGACGACGAGACCCCAATACGACCAAGAGGATGAGAAAGCACTCCGAGGG	907
DB	879	ATTGAAATTAAGCAAGAGATGCTACTGATGTTGG-----TACAAGAGGA	926
QY	908	GAGCAATGCCATGACAGTTGTGTGAAGAGAAATTAACAAGTTCAACAGTATTTGT	967
DB	927	GCACAGTTGCTATAGTTGACTGGTATTAAGAAATACTAAATTTCAAAAAGAAATTA	986
QY	968	AGTGAAGAGATTCGAGAAGGATAGGCTGCTTGTAGGACCTTGAAGAAACGTTT	1027
DB	987	CAGAACATGACCAATGCAATGCTGAAGCATCTAGTACATGAGCAAG--CAGCAT	1043
QY	1028	AGGACGTGAGCAGAGTATGTGTGACGAGCTTGTGGATATGGGGTGGGACAG	1087
DB	1044	CACATGTGAATAATATATATATATGATGACATGACATGCTGTTATTTGGGTGAGG	1103
QY	1088	CCCAAGTTCCGGGATGCCCCAGGCTAAGTTGTAC-----TCCGAGCTGTCCAAAT	1141
DB	1104	CCAGAGCAACCGGATGGAACATATATGACATGCTGCTTGGCATTCAGTGGAGTACCA	1163

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1142 GACCTAAATTGACATGAGATTTAGCGGTGATTAAGATCTCAGTAAACGAGTTGGA 1201
1164 GCGGTGCTAGAGAAACCAACCAATTTGTCATGAGAGCTTGCTGATGAGCTTGGC 1223
1202 CTGGTGCCACCCACCTGCTCAGCTTTTGTACGAGGGGCTCCTCCGCTTGAATCT 1261
1224 CTAGTGACCCCAAGAGTTTTCATTTCTACAGAGAGCTCCATGCTTACTTACTTCT 1283
1262 GCGGTATTTAGCGGTGTTAAGTTGACGTTATACCTTCTGAGATGCTATCCAGAGAA 1321
1284 TGTGAGATAGATGAGTGAAGTTGATGTCAGAAATATTTAGACCTTGGTGGGGA 1343
1322 TACGTTGCGCTGTTGAGTACCAAGCTTATTAAGAGCGTCTGCTTGGGGAAG 1381
1344 CATGTGCGCCAGTCTACTTACTGCACTGATCATCAGCGCTTGAAGCTTCCATTTGCT 1403
1382 AAGCATTTCAAGGCAATGGGGTCACTGGAGATGAGAGATTTGTAATGACTTTCTTC 1441
1404 AGCATTTTACTGATACCGATGATGCTGTTATGTCACACACTGATGAGACTTTAT 1463
1442 CTGTGACCGAAGCCATGAGCCCTTGGGCGCGTAGAGATGATTTTGTGCACTGATCC 1501
1464 AGTGTAGAGAGACT--GCTATTTGAGAGCTTCTGATGATTTTACCCTGCTATCC 1520
1502 TCTGAGATCCAAATGCAAGTATGCTCCAAAGGTGTCACATGCTGCTGCTAC 1561
1521 GCTTCCCATACCATCATATTTCTTCTGT-----TGCAATAC 1556
1562 AAGAGCTGTGATGAGAGGGAATTTTATTCAGCGCGATGGGACATGTTCCAGTCCACTC 1621
1557 AACTCATATTTCTTGAAGATTCATGCACTGAGAGCAATGTTATGATTTTAC 1616
1622 CTTGTGCGCAATTCATGAGGCTCTAGGGCCATCTCTGCTGAGCACTGATTTAGTTAGT 1681
1617 CCAGCAGAGATTTATCATGCTGAGAGCTGCTGCAATTTGCTGATTTTATTTAGT 1676
1682 GATTGTGTTGGAAGCAACACTTCAAGTTGCTCAAGAGCTTGTGCTGATGAGGAGC 1741
1677 GACAAGCCAGGCAATCAATTTTATTTTAAAGACTGTTCTCCGATGAGTTG 1736
1742 ATTTTGTGCTTCAACATGATGCACTCCCAAGAGAGATGTTGTTTGAACCCCTTG 1801
1737 GTTCTCCGTGCTCAAGTTACTGAGAGGCGCACTGATTTCTTATTTGATTCAGCC 1796
1802 CATGATGGAAGACATGCTCAAAATTTGGAATCTCAAAATATATACAGATTTGGGCT 1861
1797 AGAGATGAGACTAGTGTCTCAAAATATGGAACCTGAAATATGCTCTGAGTTGGT 1856
1862 CTATTTAATTTCCAAAGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1921
1857 GTATTTAATGCTCAAGAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1916
1922 GAATTTTCAAACTGATGATGCTTGAAGAGTCTCAAGACATTTGATGAGCAATGGG 1981
1917 ACATCTCTCTGATCACTACCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1970
1982 AAAAGCCCAATATGATTAAGAGGATGATGTTTGTCTGATATTTGTTCAAGACAC 2041
1971 ACACAGATGAGAGGTGCTGATGAGGCTTGAAGATACATTTGTTATGCTTACAGATCAGGT 2030
2042 AAACCTAAAGCTCATGAGAGCATCAGAGAAATTTGAATTTCACTTGAAGCAATTTACTTTT 2101
2031 GAGGTGATTTGGCTACCAAAAGGGGTTTCAATTTCCAGTACACTAAATTTCTGAGATTT 2090
2102 GAGCTATTTGACAGTGTCTCAAGTATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2161
2091 GAGCTTTTCCACTTCTGCTCAATTCAGAAATATGCTCCAGATATATC--ATTGACAGCA 2147
2162 ATTGATTTAGTGAACATGCTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2221
2148 ATAGGGCTACTGATATGTTCAACACTGAGAGGAGCATGAGAGGATTTGATTTATTAAC 2207
2222 CACATAGATGTGTCAAAA-----TTGGGGTTAGGGGTGTGGGAGATGAAGTGT 2275

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DB 2208 CGAGCAGCAACGAAACCAATAGCTTTAGTGAAGGGAAGAGCGCATTTGAGATTAC 2267
QY 2276 GCATCAGAGAAACCACTTATGTTCAACTAGATGGGCTAGTTGTAATTTGATTTAGA 2334
DB 2268 TCCCTCCAGAGACCACTGAAGTGTGTGAGTGGGCTGAAACCACTTCAACTATGA 2326

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RESULT 2  
US-09-425-055-23/c

; Sequence 23, Application US/09425055  
; Patent No. 6891084

; GENERAL INFORMATION:

; APPLICANT: OSUMI, CHIERO

; APPLICANT: NOZAKI, JINSHI

; APPLICANT: KIDA, TAKAO

; TITLE OF INVENTION: RAFFINOSE SYNTHASE GENE, METHOD FOR PRODUCING RAFFINOSE, AND TRAN-

; TITLE OF INVENTION: PLANT

; FILE REFERENCE: 0010104400CONT

; CURRENT APPLICATION NUMBER: US/09/425, 055

; PRIOR FILING DATE: 1999-10-22

; PRIOR APPLICATION NUMBER: PCT/JP97/03879

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; PRIOR APPLICATION NUMBER: JP 8-107682

; PRIOR FILING DATE: 1996-04-26

; NUMBER OF SEQ ID NOS: 30

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 23

; LENGTH: 2780

; TYPE: DNA

; ORGANISM: Glycine max cv. Clarke3

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (156)..(2405)

; OTHER INFORMATION:

US-09-425-055-23

Query Match 0.7%; Score 17.8; DB 1; Length 2780;

Best Local Similarity 58.5%; Pred. No. 0;

Matches 31; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 502 CGAGGCTCTCTGCAACCCGGTTGGATGATTAAGTGAACGTTGATGAGAGA 554

DB 355 CGAGGCCCTCTTAAACACCCATTTGGAACACATGAGACTTTTGTGTGTA 303

Search completed: December 2, 2005, 09:18:19  
Job time : 5 secs